WHAT IS CLAIMED IS:

- 1. A recombinant RNA molecule comprising a binding site specific for an RNA-directed RNA polymerase of a negative strand RNA virus, operatively linked to a heterologous RNA sequence comprising the reverse complement of a bicistronic mRNA coding sequence containing an internal sequence that mediates internal initiation of translation.
- 2. The recombinant RNA molecule of Claim 1 in which the polymerase binding site comprises the polymerase binding site contained in the 3'-noncoding flanking sequence of an influenza genome vRNA segment.
- 3. The recombinant RNA molecule of Claim 1 in which the polymerase binding site comprises the terminal 12 nucleotides of the 3'-terminus of an influenza genomic segment.
- 4. The recombinant RNA molecule of Claim 1 in which the 3'-noncoding viral sense flanking sequence of influenza comprises the following sequence:

 5'-ccugcuuuuCcu-3'
- 5. A recombinant RNA molecule comprising a
 heterologous RNA sequence comprising the reverse
 complement of a bicistronic mRNA coding sequence
 containing an internal sequence that mediates internal
 initiation of translation, operatively linked to a 3'noncoding flanking sequence of an influenza vRNA
 containing the viral polymerase binding site, and to a
 5'-noncoding flanking sequence of an influenza vRNA.
- 6. The recombinant RNA molecule of Claim 5 in which the 5'-noncoding flanking sequence of an

influenza vRNA comprises the first 22 nucleotides of the 5'-terminus of an influenza genomic segment.

7. The recombinant RNA molecule of Claim 5 in which the 5'-noncoding flanking sequence of an influenza vRNA comprises the following sequence:

5'-AGUAGAAACAAGGGUGUUUUUU-3'.

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- 8. A recombinant RNP comprising the recombinant RNA molecule of Claim 1 complexed with the purified RNA-directed RNA polymerase.
 - 9. A recombinant RNP comprising the recombinant RNA molecule of Claim 2 complexed with a purified influenza viral polymerase.
- 10. The recombinant RNP of Claim 9 in which the influenza viral polymerase is obtained from RNPs fractionated by centrifugation on a CsCl gradient, in which the purified influenza viral polymerase is isolated from the region of the gradient correlating to 1.5 to 2.0 M CsCl.
- 11. A recombinant RNP comprising the recombinant RNA molecule of Claim 5 complexed with a purified influenza viral polymerase.
 - 12. The recombinant RNP of Claim 11 in which the influenza viral polymerase is obtained from RNPs fractionated by centrifugation on a CsCl gradient, in which the purified influenza viral polymerase is isolated from the region of the gradient correlating to 1.5 to 2.0 M CsCl.
- 13. A chimeric virus comprising influenza virus containing a heterologous RNA sequence comprising the

reverse complement of a bicistronic mRNA coding sequence containing an internal sequence that mediates internal initiation of translation, operatively linked to an influenza viral polymerase binding site.

- 5 the heterologous RNA sequence is contained within segment 1 of influenza virus.
- the heterologous RNA sequence is contained within segment 2 of influenza virus.
 - 16. The chimeric virus of Claim 13 in which the heterologous RNA sequence is contained within segment 3 of influenza virus.

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- 17. The chimeric virus of Claim 13 in which the heterologous RNA sequence is contained within segment 4 of influenza virus.
- 18. The chimeric virus of Claim 13 in which the heterologous RNA sequence is contained within segment 5 of influenza virus.
- 19. The chimeric virus of Claim 13 in which the heterologous RNA sequence is contained within segment 6 of influenza virus.
- 20. The chimeric virus of Claim 13 in which the heterologous RNA sequence is contained within segment 7 of influenza virus.
 - 21. The chimeric virus of Claim 13 in which the heterologous RNA sequence is contained within segment 8 of influenza virus.

- virus containing in addition to its eight genomic segments an additional RNA segment containing a heterologous RNA sequence comprising the reverse complement of a bicistronic mRNA coding sequence containing an internal sequence that mediates internal initiation of translation, operatively linked to an influenza viral polymerase binding site.
- 23. The chimeric virus of Claim 22 further

 containing a selectable coding sequence such that the bicistronic mRNA coding sequence is stably expressed.
- 24. A chimeric virus comprising a negative strand RNA virus containing a heterologous RNA sequence comprising the reverse complement of a bicistronic mRNA coding sequence containing an internal sequence that mediates internal initiation of translation, operatively linked to a polymerase binding site of the negative-strand RNA virus.
- 25. The chimeric virus of Claim 24 further containing a selectable coding sequence such that the bicistronic mRNA coding sequence is stably expressed.
- 26. A recombinant DNA molecule encoding the recombinant RNA molecule of Claim 1 operatively linked to a transcription control element that binds a DNA-directed RNA polymerase.
- 27. A recombinant DNA molecule encoding the recombinant RNA molecule of Claim 2 operatively linked to a transcription control element that binds a DNA-directed RNA polymerase.

- 28. A recombinant DNA molecule encoding the recombinant RNA molecule of Claim 5 operatively linked to a transcription control element that binds a DNA-directed RNA polymerase.
- 29. A method for gene expression, comprising culturing a host cell transfected with the recombinant RNP of Claim 8 so that the heterologous gene is expressed in the culture.
- 30. A method for gene expression, comprising culturing a host cell transfected with the recombinant RNP of Claim 9 so that the heterologous gene is expressed in the culture.
- 31. A method for gene expression, comprising culturing a host cell transfected with the recombinant RNP of Claim 11 so that the heterologous gene is expressed in the culture.
- 32. A method for producing a chimeric negative-strand RNA virus, comprising culturing a host cell transfected with the recombinant RNP of Claim 8 and infected with a parental strain of the negative strand RNA virus, and recovering the chimeric virus from the culture.
 - 33. A method for producing a chimeric influenza virus, comprising culturing a host cell transfected with the recombinant RNP of Claim 9 and infected with a parental strain of influenza, and recovering the chimeric influenza virus from the culture.
- 34. A method for producing a chimeric influenza virus, comprising culturing a host cell 35

transfected with the recombinant RNP of Claim 11 and infected with a parental strain of influenza, and recovering the chimeric influenza from the culture.